

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 101791,373

Source: \_\_\_\_\_

Date Processed by STIC: \_\_\_\_\_

***ENTERED***



IFWO

**RAW SEQUENCE LISTING** DATE: 04/20/2005  
**PATENT APPLICATION:** US/10/791,373 **TIME:** 10:55:43

Input Set : N:\CrF3\RULE60\10791373.raw.txt  
Output Set: N:\CRF4\04202005\J791373.raw

## **SEQUENCE LISTING**

## RAW SEQUENCE LISTING

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Input Set : N:\Crf3\RULE60\10791373.raw.txt  
 Output Set: N:\CRF4\04202005\J791373.raw

```

62      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:                               15
64 ATGTGGACAG TTGTA
66 (2) INFORMATION FOR SEQ ID NO: 2:
68   (i) SEQUENCE CHARACTERISTICS:
69     (A) LENGTH: 15 base pairs
70     (B) TYPE: nucleic acid
71     (C) STRANDEDNESS: single
72     (D) TOPOLOGY: linear
W--> 74   (ii) MOLECULE TYPE: DNA (oligonucleotide)
78   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
80 ATGTGGATAG TTGTA                                              15
82 (2) INFORMATION FOR SEQ ID NO: 3:
84   (i) SEQUENCE CHARACTERISTICS:
85     (A) LENGTH: 15 base pairs
86     (B) TYPE: nucleic acid
87     (C) STRANDEDNESS: single
88     (D) TOPOLOGY: linear
W--> 90   (ii) MOLECULE TYPE: DNA (oligonucleotide)
94   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
96 ATGTGGAKAG TTGTA                                              15
98 (2) INFORMATION FOR SEQ ID NO: 4:
100   (i) SEQUENCE CHARACTERISTICS:
101     (A) LENGTH: 11 base pairs
102     (B) TYPE: nucleic acid
103     (C) STRANDEDNESS: single
104     (D) TOPOLOGY: linear
W--> 106   (ii) MOLECULE TYPE: DNA (oligonucleotide)
110   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
112 AAAACTGAAA A                                              11
114 (2) INFORMATION FOR SEQ ID NO: 5:
116   (i) SEQUENCE CHARACTERISTICS:
117     (A) LENGTH: 11 base pairs
118     (B) TYPE: nucleic acid
119     (C) STRANDEDNESS: single
120     (D) TOPOLOGY: linear
W--> 122   (ii) MOLECULE TYPE: DNA (oligonucleotide)
126   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
128 AAAACCGAAA A                                              11
130 (2) INFORMATION FOR SEQ ID NO: 6:
132   (i) SEQUENCE CHARACTERISTICS:
133     (A) LENGTH: 17 base pairs
134     (B) TYPE: nucleic acid
135     (C) STRANDEDNESS: single
136     (D) TOPOLOGY: linear
W--> 138   (ii) MOLECULE TYPE: DNA (oligonucleotide)
142   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
144 AAACCCAATC CACATCA                                         17
146 (2) INFORMATION FOR SEQ ID NO: 7:
148   (i) SEQUENCE CHARACTERISTICS:

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149                   (A) LENGTH: 17 base pairs  
 150                   (B) TYPE: nucleic acid  
 151                   (C) STRANDEDNESS: single  
 152                   (D) TOPOLOGY: linear  
**W--> 154           (ii) MOLECULE TYPE: DNA (oligonucleotide)**  
**158                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:**                   17  
 160 AAACCCAGTC CACATCA  
 162 (2) INFORMATION FOR SEQ ID NO: 8:  
 164                   (i) SEQUENCE CHARACTERISTICS:  
 165                    (A) LENGTH: 31 base pairs  
 166                    (B) TYPE: nucleic acid  
 167                    (C) STRANDEDNESS: single  
 168                    (D) TOPOLOGY: linear  
**W--> 170           (ii) MOLECULE TYPE: DNA (oligonucleotide)**  
**174                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:**                   31  
 176 GGGGAAGCAG ATTTGGGTAC CACCCAAGTA T  
 178 (2) INFORMATION FOR SEQ ID NO: 9:  
 180                   (i) SEQUENCE CHARACTERISTICS:  
 181                    (A) LENGTH: 31 base pairs  
 182                    (B) TYPE: nucleic acid  
 183                    (C) STRANDEDNESS: single  
 184                    (D) TOPOLOGY: linear  
**W--> 186           (ii) MOLECULE TYPE: DNA (oligonucleotide)**  
**190                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:**                   31  
 192 GGGGAAGCAG ATTTGAAMAC CACCCAAGTA T  
 194 (2) INFORMATION FOR SEQ ID NO: 10:  
 196                   (i) SEQUENCE CHARACTERISTICS:  
 197                    (A) LENGTH: 59 base pairs  
 198                    (B) TYPE: nucleic acid  
 199                    (C) STRANDEDNESS: single  
 200                    (D) TOPOLOGY: linear  
**W--> 202           (ii) MOLECULE TYPE: DNA (oligonucleotide)**  
**206                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:**                   59  
 208 GCATTAGTAG AGATATGTAC AGAAATGGAA AAGGAAGGGA AAATTTCAAA AATTGGGCC  
 210 (2) INFORMATION FOR SEQ ID NO: 11:  
 212                   (i) SEQUENCE CHARACTERISTICS:  
 213                    (A) LENGTH: 59 base pairs  
 214                    (B) TYPE: nucleic acid  
 215                    (C) STRANDEDNESS: single  
 216                    (D) TOPOLOGY: linear  
**W--> 218           (ii) MOLECULE TYPE: DNA (oligonucleotide)**  
**222                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:**                   59  
 224 GCATTAGTAG AAATTGTAC AGAGATGGAA AAGGAAGGGA AAATTTCAAA AATTGGGCC  
 226 (2) INFORMATION FOR SEQ ID NO: 12:  
 228                   (i) SEQUENCE CHARACTERISTICS:  
 229                    (A) LENGTH: 59 base pairs  
 230                    (B) TYPE: nucleic acid  
 231                    (C) STRANDEDNESS: single  
 232                    (D) TOPOLOGY: linear

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W--> 234 (ii) MOLECULE TYPE: DNA (oligonucleotide)  
 238 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
 240 GCATTAGTAG AGATATGGAG AGRARDGGRA ANNNAAGGGA AAATTNNNAA AATTGGGCC 59  
 242 (2) INFORMATION FOR SEQ ID NO: 13:  
 244 (i) SEQUENCE CHARACTERISTICS:  
 245 (A) LENGTH: 59 base pairs  
 246 (B) TYPE: nucleic acid  
 247 (C) STRANDEDNESS: single  
 248 (D) TOPOLOGY: linear  
 W--> 250 (ii) MOLECULE TYPE: DNA (oligonucleotide)  
 254 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
 256 GCATTAGTAG AGATATGKAS AGRARDGGRA ANNNAAGGGA AAAKTNNA AATTGGGCC 59  
 259 (2) INFORMATION FOR SEQ ID NO: 14:  
 261 (i) SEQUENCE CHARACTERISTICS:  
 262 (A) LENGTH: 59 base pairs  
 263 (B) TYPE: nucleic acid  
 264 (C) STRANDEDNESS: single  
 265 (D) TOPOLOGY: linear  
 W--> 267 (ii) MOLECULE TYPE: DNA (oligonucleotide)  
 271 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
 273 GCATTAGTAG AGATATGKAS AGRRRDGGRA ANNNAAGGGA AAADTYNNA AATTGGGCC 59  
 275 (2) INFORMATION FOR SEQ ID NO: 15:  
 277 (i) SEQUENCE CHARACTERISTICS:  
 278 (A) LENGTH: 59 base pairs  
 279 (B) TYPE: nucleic acid  
 280 (C) STRANDEDNESS: single  
 281 (D) TOPOLOGY: linear  
 W--> 283 (ii) MOLECULE TYPE: DNA (oligonucleotide)  
 287 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
 289 GCATTAGTAG AGATATGTAS AGRRRADGGAA ANGGAAGGGA AAATTNNNA AATTGGGCC 59  
 291 (2) INFORMATION FOR SEQ ID NO: 16:  
 293 (i) SEQUENCE CHARACTERISTICS:  
 294 (A) LENGTH: 59 base pairs  
 295 (B) TYPE: nucleic acid  
 296 (C) STRANDEDNESS: single  
 297 (D) TOPOLOGY: linear  
 W--> 299 (ii) MOLECULE TYPE: DNA (oligonucleotide)  
 303 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
 305 GCATTAGTAG AGATATGTAC AGRGAGGGAA ANGGAAGGGA AAATTNNNA AATTGGGCC 59  
 307 (2) INFORMATION FOR SEQ ID NO: 17:  
 309 (i) SEQUENCE CHARACTERISTICS:  
 310 (A) LENGTH: 59 base pairs  
 311 (B) TYPE: nucleic acid  
 312 (C) STRANDEDNESS: single  
 313 (D) TOPOLOGY: linear  
 W--> 315 (ii) MOLECULE TYPE: DNA (oligonucleotide)  
 319 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
 321 GCATTAGTAG AGATATGTAS AGRGAGGGAA ANGGAAGGGA AAATTNNNA AATTGGGCC 59  
 323 (2) INFORMATION FOR SEQ ID NO: 18:

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|                    |   |     |
|--------------------|---|-----|
| 325                | (i) SEQUENCE CHARACTERISTICS:                                     |     |
| 326                | (A) LENGTH: 59 base pairs   |     |
| 327                | (B) TYPE: nucleic acid  |     |
| 328                | (C) STRANDEDNESS: single  |     |
| 329                | (D) TOPOLOGY: linear  |     |
| <b>W--&gt; 331</b> | <b>(ii) MOLECULE TYPE: DNA (oligonucleotide)</b>                  |     |
| 335                | (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:                         |     |
| 337                | GCATTAGTAG GAGGNNGAC AGGGRKGAA ANNMAAGGGA AAAKTNNA AATTGGGCC      | 59  |
| 339                | (2) INFORMATION FOR SEQ ID NO: 19:                                |     |
| 341                | (i) SEQUENCE CHARACTERISTICS:                                     |     |
| 342                | (A) LENGTH: 160 base pairs  |     |
| 343                | (B) TYPE: nucleic acid  |     |
| 344                | (C) STRANDEDNESS: single  |     |
| 345                | (D) TOPOLOGY: linear  |     |
| <b>W--&gt; 347</b> | <b>(ii) MOLECULE TYPE: DNA (oligonucleotide)</b>                  |     |
| 351                | (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:                         |     |
| 353                | TCGAGATAAT CTATGCCTC GTCTACTATG TCATAATCTT CTTTACTTAA ACGGTCTTT   | 60  |
| 355                | TACCTTGTT TTTTACTATC CCCCTTAACC TCCAAAATAG TTTCATTCTG TCATGCTAGT  | 120 |
| 357                | CTATGGACAT CTTTAGACAC CTGTATTCG ATATCCATGT                        | 160 |
| 359                | (2) INFORMATION FOR SEQ ID NO: 20:                                |     |
| 361                | (i) SEQUENCE CHARACTERISTICS:                                     |     |
| 362                | (A) LENGTH: 160 base pairs  |     |
| 363                | (B) TYPE: nucleic acid  |     |
| 364                | (C) STRANDEDNESS: single  |     |
| 365                | (D) TOPOLOGY: linear  |     |
| <b>W--&gt; 367</b> | <b>(ii) MOLECULE TYPE: DNA (oligonucleotide)</b>                  |     |
| 371                | (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:                         |     |
| 373                | NNGAGATANN NTATGCCTC GTCYACTATG TNANNNNNN NNNNNNNNAA ACGGTCTNN    | 60  |
| 375                | NNNNNNNNNN NNNNNNNNNN CNNCNTAACCC TCCAAAATAN NNNNNNTCTN NNNNANNNT | 120 |
| 377                | CTANNNGNAG NNNNAGANAR NCCNNNNNN NNATNCATGT                        | 160 |
| 379                | (2) INFORMATION FOR SEQ ID NO: 21:                                |     |
| 381                | (i) SEQUENCE CHARACTERISTICS:                                     |     |
| 382                | (A) LENGTH: 160 base pairs  |     |
| 383                | (B) TYPE: nucleic acid  |     |
| 384                | (C) STRANDEDNESS: single  |     |
| 385                | (D) TOPOLOGY: linear  |     |
| <b>W--&gt; 387</b> | <b>(ii) MOLECULE TYPE: DNA (oligonucleotide)</b>                  |     |
| 391                | (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:                         |     |
| 393                | TCGAGATAAT CTATGCCTC GTCTACTATG TCATAATNNN NNNNACTTAA ACGGTCTTT   | 60  |
| 395                | TACCTTGTT TTTTACTATC CCCCTTAACC TCCAAAATAG TTTCATTCTG NCATANNAGT  | 120 |
| 397                | CTATGNGNNG NNNTAGACAG NCCNNNNTCG ATATCCATGT                       | 160 |
| 399                | (2) INFORMATION FOR SEQ ID NO: 22:                                |     |
| 401                | (i) SEQUENCE CHARACTERISTICS:                                     |     |
| 402                | (A) LENGTH: 160 base pairs  |     |
| 403                | (B) TYPE: nucleic acid  |     |
| 404                | (C) STRANDEDNESS: single  |     |
| 405                | (D) TOPOLOGY: linear  |     |
| <b>W--&gt; 407</b> | <b>(ii) MOLECULE TYPE: DNA (oligonucleotide)</b>                  |     |
| 411                | (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:                         |     |

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/791,373

DATE: 04/20/2005  
TIME: 10:55:44

Input Set : N:\Crf3\RULE60\10791373.raw.txt  
Output Set: N:\CRF4\04202005\J791373.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:38 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)  
L:58 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1  
L:74 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2  
L:90 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3  
L:106 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4  
L:122 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5  
L:138 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6  
L:154 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7  
L:170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8  
L:186 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9  
L:202 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10  
L:218 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11  
L:234 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12  
L:250 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13  
L:267 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14  
L:283 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15  
L:299 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16  
L:315 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17  
L:331 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=18  
L:347 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19  
L:367 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20  
L:387 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21  
L:407 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22  
L:427 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23  
L:447 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24  
L:467 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25  
L:487 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26  
L:507 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27  
L:527 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28  
L:543 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29  
L:559 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30  
L:575 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31  
L:591 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32  
L:607 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33  
L:623 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34  
L:639 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35  
L:655 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=36  
L:671 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=37  
L:687 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=38  
L:703 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=39